

L 36936-66

ACC NR: AT6023555

g/cm<sup>2</sup>, and a characterizes the loss of speedy particles by ionization;  $\alpha$  increases according to a logarithmic law of energy,  $b_t$  expresses the loss of  $\mu$ -mesons by bremsstrahlung,  $b_p$  expresses the energy loss by generation of electron and positron pairs by a  $\mu$ -meson,  $b_{\gamma a}$  expresses the loss of photonuclear energy of a  $\mu$ -meson generating electron nuclear showers. The electromagnetic field of a  $\mu$ -meson is able to interact with atomic nuclei. Cherenkov counters are used for measurements of  $\mu$ -meson intensity of great depths. The counter is spherically shaped and filled with water; the inside paint diffuses light and has a reflection coefficient of 90%. As a  $\mu$ -meson crosses the diameter of the sphere, it generates  $2 \cdot 10^4$  photons of Cherenkov radiation in the spectral range 2900—6000 Å, which is recorded by the Cherenkov counter. The addition of a little fluorescent salt to the water in the counter transfers photons of Cherenkov radiation from the 2900—3500-Å range to the 4500—5500-Å range, in which the maximum sensitivity of photocathodes is found. The effectiveness of recording single  $\mu$ -mesons entering the counter was 99%, as was determined by a special experiment. Data on the intensity of cosmic rays at sea level and preliminary data at greater depths are given in a table in the original article. The authors express thanks to Professor A. G. Kolesnikov for permission to work in FIAN and MGIANUSSR and also to the heads of the Departments of Physics and Physics of the Sea of Moscow State University for their help. Orig. art. has: 1 table, 2 figures, and 2 formulas.

[EG]

SUB CODE: 0720/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 002/ ATD PRESS: 5038

Card 2/2 llb

L 26553-66 ENT(m)/T

ACC NR: AP6017357

SOURCE CODE: UR/0062/66/000/003/0393/0398

AUTHOR: Glazun, B. A.; Fedorov, V. M.; Dubinin, M. M.; Zhilenkov, I. V.

ORG: Voronezh Agricultural Institute (Voronezhskiy sel'skokhozyaystvennyy institut);  
Institute of Physical Chemistry, AN SSSR (Institut fizicheskoy khimii AN SSSR)

TITLE: Investigation of the dielectric properties of water absorbed by zeolites.  
Report 2. Low-temperature relaxation in the crystalline system, NaA zeolite-water  
with low fillings

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 3, 1966, 393-398

TOPIC TAGS: zeolite, dielectric property

ABSTRACT: The dielectric behavior of NaA zeolite crystals with low water fillings was studied at frequencies of  $10^5$ - $10^7$  cps in the 90-250°K range. Two relaxation processes are observable. One of them corresponds to relaxers which are present in the dehydrated zeolite, and is suppressed with an increase in the content of adsorbed water. The other process is apparently associated with the relaxation of the adsorbed water molecules themselves. An attempt was made, based on dielectric measurements, to estimate the number of the most active sites in the zeolite. The authors thank Ya. V. Mirskiy for presenting the zeolite specimen for study. Orig. art. has: 5 figures. [JPBS]

SUB CODE: 20, 07 / SUBM DATE: 05Nov63 / ORIG REF: 006 / OTH REF: 004

Card 1/1 (C)

UDC: 541.183+541.67

ACC NR: AP7006025

SOURCE CODE: UR/0062/66/000/007/1129/1135

AUTHOR: Fedorov, V. M.; Glazun, B. A.; Dubinin, M. M.; Zhilenkov, I. V.

ORG: Voronezh Agricultural Institute (Voronezhskiy sel'skokhozyaystvennyy institut);  
Institute of Physical Chemistry, AN SSSR (Institut fizicheskoy khimii AN SSSR)

TITLE: Investigation of the dielectric properties of water adsorbed by zeolites.  
Communication 3. Dielectric losses in the system NaA zeolite crystal — water at  
average degrees of filling

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 7, 1966, 1129-1135

TOPIC TAGS: zeolite, adsorption, dielectric property, dielectric permeability

ABSTRACT: New results of an investigation of NaA zeolite with a water  
content of 40% of the maximum adsorbable amount are discussed. Construction  
of the dielectric isotherm (dependence of the static dielectric permeability  
on the value of the adsorption at constant temperature) and a study of the  
variation of the parameter  $1 - \alpha$ , characterizing the distribution of  
energies of the active centers, permitted conclusions on the finer sub-  
division of the active centers determining the relaxation of adsorbed water  
molecules. Dielectric losses at low frequencies were found to occur in the  
temperature region from  $-40$  to  $+20^\circ$  in NaA zeolite containing water. The  
dielectric adsorption isotherm had a break at a water content in the zeolite

Card 1/2

UDC: 541.183 + 546.67 + 621.317.33

04270839

ACC NR: AP7006025

corresponding to approximately five to seven molecules per unit cell, evidently due to the structuration of water with increasing adsorption and to the different sorbability on sodium ions bonded to eight-membered and six-membered oxygen rings. A distribution of relaxation times was observed in the region of losses considered, probably due to the energetic heterogeneity of the active centers. The region of distribution became narrower with increasing water content, which indicates development of the structure. The activation energy and entropy of activation for polarization in an electric field increased with increasing water content of over 5%. Measurements of the free energy of formation, together with the break on the dielectric adsorption isotherm indicated that there is a sharp change in the dielectric properties of the adsorbed water at a degree of filling of 20%. The zeolites NaA-I and NaA-II possessed different values of the dielectric permeability  $\epsilon$  at identical temperatures and degrees of filling, which is evidently due to differences in the mode of their manufacture. In spite of these differences, the same patterns were observed in both samples. The authors thank Ya. V. Mirskiy and B. A. Lipkind for providing zeolite samples for analysis. Orig. art. has: 3 figures, 3 formulas and 1 table. [JPRS: 38,967]

SUB CODE: 07, 20 / SUBM DATE: 26Feb64 / ORIG REF: 008 / OTH REF: 008

Card 2/2

ACC NR: AT7004845

SOURCE CODE: UR/3226/66/000/040/0001/0011

AUTHOR: Dolgov-Savel'yev, G. G.; Kruglyakov, E. P.; Malinovskiy, V. K.; Fedorov, V. M.

ORG: none

TITLE: Optical interferometry of plasma

SOURCE: AN SSSR. Sibirskoye otdeleniye. Institut yadernoy fiziki. Prepring, no. 4, 1966. Opticheskaya interferometriya plazmy, 1-11 and inserts following p. 11

TOPIC TAGS: optic interference, plasma diagnostics, plasma electron, electron density, laser application

ABSTRACT: The authors describe an optical interferometer used in conjunction with a laser at the Institute of Nuclear Physics SO AN SSSR for the measurement of the electron density in a plasma under thermonuclear conditions and to determine the degree of ionization of the plasma. Two different variants of the interferometer are described, one with a field of 150 mm and the other with a field of 250 mm. The theory of the interferometer is briefly outlined and the individual interferometer elements are described together with the requirements which they must satisfy. The characteristics of the lasers used for the illumination of the optical interferometers are presented. The lasers used were a Q-switched ruby laser, Q-switched neodymium-glass laser, and a quasi-cw ruby laser. Suitable high-speed photography devices are also described. The minimum observable electron densities are  $5 \times 10^4 \text{ cm}^{-3}$  when a Mach-

Card 1/2

ACC NR: AT7004845

Zender interferometer is used. The sensitivity can be doubled by using a Michelson interferometer, and improved further (to  $10^{14} \text{ cm}^{-3}$ ) using the longer wavelength of the neodymium-glass laser. The authors also used a scheme consisting of Michelson and Fabry-Perot interferometers, and were able to effect a sixfold passage of light through the arm with the plasma. This should theoretically increase the sensitivity by 10 - 20 times, but the equipment vibrated excessively and its potential capabilities could not be realized. Orig. art. has: 4 figures, 5 formulas, and 1 table.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 003/ OTH REF: 009

Card 2/2

FEDOROV, V.M., assistant

Two main factors producing national income and their utilization  
in the building of communism. Uch. zap. LIIZHT no.3:24-46 '62.  
(MIRA 17:3)

ERDEDI. Aleksey Alekseyevich; FEDOROV, Vladimir Nikolayevich;

[Theoretical mechanics] Teoreticheskaya mekhanika. Moskva, Vysshaya shkola, 1964. 354 p. (MIRA 17:9)



KACHKOVA, M.V.; TEMKIN, A.G.; FEDOROV, V.H.

Storage of moist millet in an inert gas atmosphere. Izv. vys.  
ucheb. zav.; pishch. tekhn. no.3:14-17 '60. (MIRA 14:8)

1. Kuybyshevskiy elevator im. M. Gor'kogo i Kuybyshevskiy industrial'nyy institut im. V.V. Kuybysheva.  
(Millet—Storage)

FEDOROV, V. H.

"Acoustical Method of Measuring Vibrations," a report read at the conference of the Acoustical Commission AS USSR held in Leningrad 1-3 Feb 51.

W-21610, 25 Feb 52

*FEDOROV, V.N.*

FEDOROV, V.N., inzh.; GORBOVETS, M.N., inzh.

Machine tool for manufacturing wall bricks using local building materials. Stroi. i dor. mashinostr. 3 no.2:27-29 F '58.

(MIRA 11:2)

(Machine tools)

(Hollow bricks)

L 8971-66	EWI(1)/EWI(m)/ENP(t)/ENP(h)	LIP(c)	ID/JC
ACC NR: AP5027418	SOURCE CODE: UR/0181/65/007/011/3372/3377 56		
AUTHOR: <sup>44,55</sup> Adamyan, V. Ye.; <sup>44,55</sup> Golubkov, A. V.; <sup>44,55</sup> Loginov, G. M.; <sup>44,55</sup> Fedorov, V. Hs. 44 23			
ORG: <sup>44,55</sup> Institute of Semiconductors, AN SSSR, Leningrad (Institut poluprovodnikov AN SSSR)			
TITLE: Investigation of magnetic susceptibility in <u>neodymium chalcogenides</u>			
SOURCE: Fizika tverdogo tela, v. 7, no. 11, 1965, 3372-3377 27			
TOPIC TAGS: neodymium compound, sulfide, telluride, selenide, <u>magnetic susceptibility</u> 21, 44, 55			
ABSTRACT: Magnetic susceptibility was measured as a function of temperature in NdS, NdSe, NdTe and Nd <sub>2</sub> S <sub>3</sub> to determine: 1) the effect of gradual changes in the anion on the behavior of the neodymium; 2) whether Nd shows another valence besides three; 3) whether or not these compounds have ferromagnetic or antiferromagnetic properties. The experimental equipment and the method used are described in detail. The measurements were made in the 100-1300°K range. Curves are given for the relationship between temperature and inverse paramagnetic susceptibility for the chalcogenides which were studied. These curves are compared with theoretical curves calculated from Van Vleck's formula. Satisfactory agreement is found between empirical and theoretical data for Nd <sup>3+</sup> at a screening number $\sigma = 34$ , and for Nd <sup>4+</sup> at $\sigma = 35$ . However, theoretical calculations of the type and concentration of current carriers as well as mea-			
Card 1/2			

L 8971-66

ACC NR: AP5027418

surements of the Hall effect give evidence of a valence of three in neodymium chalcogenides. In conclusion, the authors consider it their pleasant duty to thank Professor G. A. Smolenskiy for directing the work, Ya. V. Vasil'yev for his assistance in adjusting the automatic control circuits, and V. M. Sergeyeva and Ye. V. Goncharova for assistance in discussion of the data. Orig. art. has: 3 figures, 1 table, 4 formulas. 12

SUB CODE: 20,07/

SUBM DATE: 02Apr65/

ORIG REF: 003/

OTH REF: 011

44,55

44,55

44,55

80

Cord 2/2

FEDOROV, V. N.

V. N. Fedorov, and I. I. Rogozin. Profilaktiki chumy /Prophylaxis of Bubonic Plague/, Medgiz, 10 sheets -1953

Contains brief information on bubonic plague, its history, present distribution over the earth, causes of its formation of foci among rodents, biology of the causal agent, epizootology, and epidemiology. Information is also given on the prophylaxis of bubonic plague and on the measures necessary to localize and liquidate its foci, taking the varying conditions into consideration (thinly-populated points, cities, etc.)

Intended for doctors of the general and anti-plague system of medical institutions.

SO: U-6472, 23 Ngv 1954

FEDOROV, V.N.

FEDOROV

FEDEROV, V.N.

[Prevention of plague] Profilaktika ohunt. 1zd. 2., ispr. 1  
dop. Moskva, Medgiz, 1955. 229 p. (MIRA 8:6)  
(Plague--Prevention)

FEDOROV, V. N., FENYUK, B. K., and TIKHOMIROVA, M. M.

"A Plague Epizootic of 1953 in Western Turkmenai."

report submitted (not delivered due to time limit) at Joint Conference on the Problem of the Foci and Epidemiology of the Highly-Infectious Diseases, held 25 Jan to 2 Feb, 1957, at the State Inst of the South-East of the USSR, "MIKROB,"



FEDOROV, V. N. (Saratov)

"Necessity of Co-ordination of the Existing Instructions on Antiepidemic Measures in Plague Foci with the Modern Conception of the Plague Epidemiology,"

report presented at Joint Conference on the Problem of the Foci and Epidemiology of the Highly-Infectious Diseases, held 25 Jan to 2 Feb, 1957, at the State Inst of the South-East of the USSR, "MIKROB,"

FEDOROV, V. N. and KOZAKEVICH, V. P. (Saratov)

"The Actual Distribution of Plague in Foreign Countries,"

report presented at Joint Conference on the Problem of the foci and Epidemiology of the Highly-Infectious Diseases, held 25 Jan to 2 Feb, 1957, at the State Inst of the South-East of the USSR, "MIKROB."

FEDOROV, V. N.

Plague in Camels and its Prevention in the USSR\* -- Prof. V. N. FEDOROV, Inst for Scientific Research Against Plague for the Caucasus and Trans-Caucasus, Stavropol, USSR

In 1954-56, a series of experiments was carried out in Central Asia under the guidance of the author, in which camels were infected with plague by infesting them with *Imodes* and *Argas* ticks which had previously fed on plague-infected laboratory animals.

\*Paper submitted to the WHO Expert Committee on Plague, Sept 1958

FEDOROV, V. N., RAIL', YU. M.

"The epizootological patterns and epidemiological characteristics of the natural foci of various types of the plague." Page 271

Desyatoye soveshchaniye po parazitologicheskim problemam i prirodnoochagovym boleznyam. 22-29 Okt'yabrya 1959 g. (Tenth Conference on Parasitological Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 254pp.

Antiplague Inst. of the Caucasus and Transcaucasus/Stavropol'

SAVOSTIN, D.G., kand.med.nauk, otv.red.; FENYUK, B.K., prof., red.;  
FEDOROV, V.N., prof., red.

[Natural focus and epidemiology of especially dangerous infectious diseases] Prirodnaia ochagovost' i epidemiologiya osobo opasnykh infektsionnykh zabolevani; sbornik rabot meshinstitutskoi nauchnoi konferentsii. Red.kollegiia; D.G.Savostin, B.K.Fenyuk, V.N.Fedorov. Saratov, Gos.nauchno-issledovatel'skii in-t mikrobiologii i epidemiologii Yugo-Vostoka SSSR M-va zdavookhraneniia SSSR, 1959. 595 p. (MIRA 13:7)

1. Mezhsinstitutskaya nauchnaya konferentsiya po prirodnoy ochagovosti i epidemiologii osobo opasnykh infektsionnykh zabolevaniy. Saratov, 1957. 2. Gosudarstvennyy nauchno-issledovatel'skiy institut mikrobiologii i epidemiologii Yugo-Vostoka SSSR (g.Saratov) (for Fenyuk). 3. Gosudarstvennyy nauchno-issledovatel'skiy institut mikrobiologii i epidemiologii Yugo-Vostoka SSSR (g.Saratov); Sredne-Aziatskiy nauchno-issledovatel'skiy protivochumnyy institut (g.Alma-Ata); Turkmenskaya respublikanskaya protivochumnaya stantsiya (g.Ashkhabad) i Turkmenskiy institut shivotnovodstva i veterinarii (g.Ashkhabad) (for Fedorov).

(COMMUNICABLE DISEASES)

17(2)

SOV/16-60-2-5/35

AUTHORS: Rall', Yu.M., Fedorov, V.N.

TITLE: The Physiological Evaluation of Rodents as the Carriers of Plague and the Monohostality of Its Natural Nidi

PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1960, Nr 2, pp 29 - 35 (USSR)

ABSTRACT: This paper was first presented at a conference on ecological physiology at the Institut fiziologii imeni I.P. Pavlova AN SSSR (Institute of Physiology imeni I.P. Pavlov of the AN USSR) on January 15, 1959. The authors summarize the theories on the role of rodents in the spread of plague adduced in their time by various researchers (N.V. Bashenina, P.F. Zdrodovskiy, N.I. Kalabukhov, V.A. Pryakhin, L.S. Malafeyeva, Mamed-Zade, R.S. Mikhaylova, E.A. Petrosyan, Ye.N. Pavlovskiy, A.A. Sinichkina, A.F. Dudnikova, I.S. Tinker, B.K. Fenyuk, etc.) They criticize attempts to explain the susceptibility of different species of rodents to plague and their ability to maintain plague nidi simply by random concoction of physiological indices and point out that the ecological features such as density of distribution, species, type of habitat, customs and behavior of the animals, etc. have more bearing on

Card 1/2

SOV/16-60-2-5/35

The Physiological Evaluation of Rodents as the Carriers of Plague and the Monohostality of Its Natural Nidi

the problem. Each natural plague nidus has a species of rodent which constitutes the dominant carrier, although other species of rodent in the area may also be susceptible to plague and act as carriers. Destruction of this main carrier will have a great beneficial epidemiological effect, even if the other species remain. This has been proved in practice in clearing up former nidi of plague in the Soviet Union. There are: 16 references, 15 of which are Soviet and 1 English.

ASSOCIATION: Nauchno-issledovatel'skiy protivochumnyy institut Kavkaza i Zakavkaz'ya  
(Plague Research Institute of the Caucasus and Transcaucasia), Stravropol'

SUBMITTED: February 18, 1959

Card 2/2

RAIL', Yu.M.; ~~FEDOROV~~, V.N.

Problem of the physiological evaluation of rodents as carriers  
of plague and the one-host concept of its natural foci. Zhur.  
mikrobiol.epid.i immun. 31 no.2:29-35 F '60. (MIRA 13:6)

1. Iz Nauchno-issledovatel'skogo protivochumnogo instituta Kav-  
kaza i Zakavkaz'ya, Stavropol'.  
(PLAGUE transmission)  
(RODENTS diseases)



NIKOLAYEV, N.I., otv. red.; LENSKAYA, G.N., zam. otv. red.; PASTUKHOV, B.N., zam. otv. red.; FENYUK, B.K., zam. otv. red.; ISHUNINA, T.I., red.; AKIYEV, A.K., red.; DOMARADSKIY, I.V., red.; DROZHEVKINA, M.S., red.; ZHOVTYY, I.F., red.; KOROBKOVA, Ye.I., red.; KRAMINSKIY, V.A., red.; KRATINOV, A.G., red.; LEVI, M.I., red.; LOBANOV, V.N., red.; MIRONOV, N.P., red.; PETROV, V.S., red.; PLANKINA, Z.A., red.; PYPINA, I.M., red.; SMIRNOV, S.M., red.; TER-VARTANOV, V.N., red.; TIFLOV, V.Ye., red.; FEDOROV, V.N., red.; PARNES, Ya.A., red.; PRONINA, N.D., tekhn. red.

[Especially dangerous natural focus infections] Osobo opasnye i prirodnootchagovye infektsii; sbornik nauchnykh rabot protivochumnykh uchrezhdenii. Moskva, Medgiz, 1962. 271 p.

(MIRA 16:5)

(COMMUNICABLE DISEASES)

FEDOROV, V. N.

Fedorov, V. N. - "Characteristics of certain beams of uniform bending strength,"  
Trudy Sev.-Kavk. gorno-metallurg. in-ta. Issue 6, 1949, p. 3-20

SO: U-4934, 29 Oct 53, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).

SOV/124-58-7-8111

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 7, p 114 (USSR)

AUTHOR: Fedorov, V.N.

TITLE: The Calculation of Composite Wooden Beams (Raschet sost-  
avnykh derevyannykh balok)

PERIODICAL: Sb. nauchn. tr. Severo-Kavkazsk. gorno-metallurg. in-t,  
1957, Nr 14, pp 312-331

ABSTRACT: The stresses and deflections are determined in a composite beam consisting of two bars joined by elastic connectors (splines). As his initial parameter the author does not take the force being exerted on the connectors (as is done in precise theory) but takes directly the distance between the neutral axis of a bar and the center of gravity of the entire beam section, which distance comprises the segment  $\alpha h$  of the bar's full height  $h$ . Without demonstration the author assumes the coefficient to be constant and independent of the location of the section in question along the beam---which contravenes exact theory. The (presumed) constancy of the coefficient  $\alpha$  is not confirmed by the results of the author's experiments; his results indicate great imprecision in the conduct of the

Card 1/2

SOV/124-58-7-8111

The Calculation of Composite Wooden Beams

experiments (asymmetrical deformations produced by supposedly symmetrical loads), and they do not agree with his calculations (there being a monotonous discrepancy of 5 to 6%). A comparison of his results with precise theory is not attempted.

A.V. Dyatlov

1. Beams--Mechanical properties    2. Wood--Applications    3. Mathematics  
--Applications

Card 2/2

KOL'MAN-IVANOV, E.E.; PEDOROV, V.N.

Methods of manufacturing pipes from glas plastics (from foreign  
data). Plast.massy no.11:74-78 '60, (MIRA 13:12)  
(Pipe, Plastic)

FEDOROV, V.N.; GLADCHENKO, I.P.; AUDRING, V.V.; DOBRYAKOV, B.N.

Equipment and methods of manufacturing articles from glass reinforced plastics by the spraying method. Plast.massy no.7:54-58  
'61. (MIRA 14:7)

(Glass reinforced plastics)

FEDOROV, V.N.

Age of granitoids in the upper Chagan Basin in the  
Chingiz-Tau, Trudy VSEGEI 74:99-105 '62. (MIRA 15:9)  
(Chingiz Tau—Granite)

FEDOROV, V.N.

Uranium in the igneous rocks of some regions in the Chingiztau  
and Kalba Range (eastern Kazakhstan). Trudy VSEGEI 95:93-100  
'63. (MIRA 17:11)



MAKAREVICH, B.K.; MIKHEYEV, V.M.; TIKHVINSKIY, V.I.; PANKIN, A.V.;  
doktor tekhn. nauk, retsenzent; FEDOROV, V.N., dots.,  
retsenzent; MAKOVSKIY, G.M., red.; ABUMOVA, Ye.S., tekhn.  
red.

[Reconditioning metal-cutting tools] Vosstanovlenie re-  
zhushchego instrumenta. Moskva, Gos. nauchno-tekhn. izd-vo  
mashinostroit. lit-ry, 1948. 174 p. (MIRA 15:4)  
(Metal-cutting tools—Maintenance and repair)

*FEDOROV, V.M.,*

GORBENKO, D.N.; FEDOROV, V.M.; GLADILIN, A.N., kandidat tekhnicheskikh nauk, nauchnyy redaktor; KOPTEVSKIY, D.Ya., redaktor; RAKOV, S.I., tekhnicheskii redaktor.

[Machinist's handbook] Spravochnik slesaria. Moskva, Vsesoiuznoe uchebno-pedagog. izd-vo 1954. 226 p. (MLRA 7:10)  
(Machine-shop practice)

FEDOROV, Vladimir Nikolayevich; FEDOROV, Anatoliy Vladimirovich; RZHAVIN-  
SKII, V.V., nauchnyy redaktor; KOPTEVSKIY, D.Ya., redaktor; IRYNOSH-  
KINA, K.V., tekhnicheskiy redaktor

[Making and repairing dies and attachments] Proizvodstvo i remont  
shtampov i prispособlenii. Moskva, Vses. uchebno-pedagog. izd-vo  
trudreservizdat, 1954. 215 p. (MIRA 8:7)  
(Dies (Metal-working))

FEDOROV, Anatoliy Vladimirovich; ~~FEDOROV, Vladimir Nikolayevich;~~  
ROGACHEV, F.V., redaktor; OSTRILOV, N.S., tekhnicheskiy redaktor

[The manufacture and repair of dies and equipment] Izgotovlenie i  
remont shtampov i prispособlenii. Izd. 3-e, ispr. i dop. Moskva,  
Vses. uchebno-pedagog. izd-vo Trudreservizdat, 1956. 262 p.  
(Dies (Metal-working)) (MLRA 10:3)

FEDOROV, Vladimir Nikolayevich; MURASHIN, Nikolay Vladimirovich; DANILEVSKIY,  
V.V., nauchnyy redaktor; KOPTEVSKIY, D.Ya., redaktor; OSTRIKOV, N.S.  
tekhnicheskiy redaktor,

[Reference manual for the young mechanic] Spravochnik molodogo slesaria.  
Moskva, Vses.uchebno-pedagog.izd-vo Trudreservizdat, 1956. 327 p.  
(MIRA 10:4)

(Machine-shop practice)

ROZIN, Aleksandr Iosifovich; FEDOROV, V.N., inzh., retsenzent; KLIMOV, V.I., inzh., retsenzent; KUKLIN, L.G., kand.tekhn.nauk; retsenzent; RABOTIN, A.N., inzh., retsenzent; SHABASHOV, S.P., kand.tekhn.nauk, retsenzent; UVAROVA, A.F., tekhn.red.; DUGINA, N.A., tekhn.red.

[Operator of machines for manufacturing metal-cutting tools]  
Slesar' - instrumental'shohik. Izd.2., perer. Moskva, Gos.  
nauchno-tekhn.isd-vo mashinostroitel'noy, 1959. 247 p.

(Machine-shop practice)

(MIRA 13:2)

FEDOROV, Vladimir Nikolayevich; MURASHIN, Nikolay Vladimirovich;  
TIKHONOV, V.I., nauchnyy red.; BASHKOVICH, A.L., red.; RAKOV,  
S.I., tekhn.red.

[Handbook for young mechanics] Spravochnik molodogo slesaria.  
Izd. 3., perer. i dop. Mos'va, Vses.uchebno-pedagog.izd-vo  
Trudreservisdat, 1959. 327 p. (MIRA 13:3)  
(Mechanics (Persons)—Handbooks, manuals, etc.)

LAPENKOV, M.F.; FEDOROV, V.N.

Using the method of nuclear magnetic resonance to determine  
the solubility limit in binary alloys. Izv. vys. ucheb. zav.;  
chern. met. 8 no.9:139-141 '65. (MIRA 18:9)

1. Moskovskiy institut stali i splavov.



16  
 DOCUMENT CODE: Ua/0415/66/000/015/002/01/002/01

Authors: V. I. A. Ye.; Benamikov, V. S.; Aysman, Yu. A.; Sokolinskiy, Ye. A.;  
 Kaphumov, A. I.; Zedorov, V. N.; Ivanov, A. M.; Kalinskiy, S. A.;  
 Vysotskiy, V. V.; An'k, V. Kh.; Vysotskiy, Yu. A.; Zamukiy, V. M.; Mysterov, V. V.;  
 Yevserov, D. A.; Germanov, Yu. G.; Maksimov, N. P.;  
 Pishchulin, V. V.

Class: none

Topic: Seismic station. Class 42, No. 10/166 [announced by "Neftepribor" Factory  
 of the Instrument Manufacture Administration of Gosgorsovmarkhoz (Zavod "Neftepribor"  
 (obshchestvennoye pritorostroyeniya Gosgorsovmarkhoza)]

Source: Izobret prom obraz tov zn, no. 15, 1966, 94

Topic TAGS: seismologic station, seismologic instrument

ABSTRACT: This Author Certificate presents a seismic station containing a seismic  
 signal detector, a recording amplifier unit, an oscillograph, a magnetic drum  
 recorder, a channel reproduction unit, a control unit, a reproduction amplifier, a  
 multichannel borehole probe, a drum with photographic paper, a retransmitting unit,  
 and a power supply. To increase the reliability when transferring from operation with  
 the method of reflected waves to the method of refracted waves, a filter unit is  
 connected between the first and second stages of the recording amplifier unit. A

Cord 1/2

UDC: 550.340.19

L 10062-57

ACC NR: AP6029933

modulator-demodulator unit and a reel type magnetic recorder are connected in series to the output of the recording amplifier unit. For operation with the method of refracted waves, the filter unit has frequency cutoffs of 7--30 hz, and for operation at sea--frequency cutoffs of 20--50 hz. To increase the reliability of the recorded data with operation by the method of regulated directional reception, a switching unit for the channels to be summed, a static correction unit, and a summing unit are connected in series between the magnetic drum recorder and the reproduction amplifier. To increase the reliability when transferring from operation with the method of reflected waves to seismic logging, a frequency selection unit is connected between the multichannel borehole probe and the magnetic drum recorder. To improve the quality of the recorded material, an electron beam unit for introducing static and dynamic corrections is connected between the reproduction amplifier and the drum with photographic paper.

SUB CODE: 00/ SUBM DATE: 05May65

Core 2/2

ACC NR: AF7002978

SOURCE CODE: UR/0413/66/000/024/0077/0077

INVENTOR: Veksler, B. Ye.; Katkov, O. F.; Malinskiy, B. A.; Minkin, M. M.;  
Remennikov, V. B.; Rybakov, L. A.; Sokolinskiy, Ye. A.; Fedorov, V. N.; Shaulovich,  
I. Sh.; Gertsov, S. M.; Fishchulin, V. V.

ORG: None

TITLE: A seismic prospecting station. Class 42, No. 189598

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 24, 1966, 77

TOPIC TAGS: seismic prospecting, frequency divider, quartz crystal, seismologic  
station

ABSTRACT: This Author's Certificate introduces a seismic prospecting station contain-  
ing an amplification-conversion channel, registration unit and power supply. The  
unit is designed for improved reliability and operational convenience. A quartz os-  
cillator with a frequency divider system is used as a precision-frequency power supply  
and synchronizing unit. The oscillator is connected through amplifiers to the actua-  
ting units of the station.

SUB CODE: 08 / SUBM DATE: 04Jun65

Card 1/1

UDC: 550.340.19

USSR •

✓ Heat conductivity of aluminum oxide at high temperatures. / A. B. Shul'man, V. N. Eroshov, and M. A. Shep-senrol. *Zhur. Tekh. Fiz.* 22, 1271-80 (1952); *Science Abstr.* 1953, 772 (1953). — A method is suggested of detg. heat cond. of ceramic materials at high temps., consisting in comparing results of measurements conducted by 2 methods: that of the shift of specific power characteristics and the probe method. In the first method, differential measurements are made on specimens in which the substance tested forms a tubular layer around a W filament through which current is passed. In the 2nd, a thin W filament is wound around the specimen and coated with a thin layer of the tested material; this thin W filament serves as resistance thermometer.

R. D. H.

AID P - 4361

Subject : USSR/Heat Engineering

Card 1/1 Pub. 110-a - 6/19

Authors : Temkin, A. O., Kand. Tech. Sci. and V. N. Fedorov, Eng.  
Kuybyshev Institute of Industry

Title : On computing heat transfer in furnaces

Periodical : Teploenergetika, 4, 21-22, Ap 1956

Abstract : The computation of a radiant energy absorbing wall in  
the boiler is explained. A mathematical analysis for  
the computation of large waterwall boilers is given.  
Two Russian references, 1950 and 1954.

Institution : None

Submitted : No date

FEDOROV, V.M., inzh.

Sluice valves for cementation furnaces. Stroi. i dor. mashinostr 3  
no.5:38-39 My '58. (MIRA 11:6)  
(Furnaces) (Valves)

ZHUKOV, A.M., insh.; KUCHUBURENKO, A.P., dotsent, kand. tekhn. nauk;  
MURAV'YEV, V.D., insh.; UVAROV, G.A., dotsent, kand. tekhn. nauk;  
FEDOROV, V.N., insh.; SHESTAKOV, B.I., dotsent

Investigating combusting pulsations during burning of Kashpir shale  
in furnaces with shaft-type impact mills. Izv. vys. ucheb. zav.; energ.  
2. no.10:53-59 C '59. (MIRA 13:3)

1. Kuybyshevskiy industrial'nyy institut imeni V.V. Kuybysheva.  
Predstavlena sektiyy prikladnoy toplotekhniki.  
(Oil shales)

BELOUSOV, V.M., inzh.; VIDMANOV Yu.I., inzh.; STEPANYAN, A.A., inzh.  
UVAROV, G.A., kand.tekhn.nauk; FEDOROV, V.N., inzh.; SHESTAKOV,  
B.I., kand.tekhn.nauk

Measuring devices and methods for measuring pulsations in boiler  
furnace systems. Izv. vys. ucheb. zav.; energ. 4 no.3:49-52  
Mr '61. (MIRA 14:3)

1. Kuybyshevskiy industrial'nyy institut imeni V. V. Kuybysheva.  
Predstavlena kafedroy teploenergeticheskikh ustanovok.  
(Transducers) (Boilers)



VINER, A.M., inzh.; TEMKIN, A.G., kand.tekhn.nauk; FEDOROV, V.N., inzh.

Nomogram for calculating heat transfer in a furnace. Teploenergetika  
8 no.1:89-90 Ja '61. (MIRA 14:4)  
(Furnaces) (Heat—Transmission)

UVAROV, G.A., kand.tekhn.nauk; SHESTAKOV, B.I., kand.tekhn.nauk;  
FEDOROV, V.N., inzh.; GOPKO, M.K., inzh.; ANDREYEV, G.B., inzh.  
ORLOV, A.V., inzh.

Simultaneous burning of anthracite culm and gas with different  
methods for supplying the gas to the furnace. Teploenergetika  
8 no.4:52-57 Ap '61. (MIRA 14:8)

1. Kuybyshevskiy industrial'nyy institut i Kuybyshevenergo.  
(Furnaces)

MIKHEYEV, Vikentiy Pavlovich; FEDOROV, Vsevolod Nikolayevich;  
GLOZHSHEYN, Ya.S., nauchn. red.; NEVEL'SHTEYN, V.I.,  
ved. red.

[Hearth and slotted burners for natural gas] Podovye i  
shchelevye gorelki dlia prirodnogo gaza. Leningrad,  
Nedra, 1965. 73 p. (MIRA 18:4)

47730-66  
ACC NR: AP6029042

SOURCE CODE: UR/0413/66/000/014/0058/0058

INVENTOR: Ivanova, I. M.; Fedorov, V. N.; Yudashkin, A. G.

ORG: none

TITLE: Slot-type gas burner. Class 24, No. 183871

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 58

TOPIC TAGS: gas burner, gas combustion

ABSTRACT: The proposed gas burner contains perforated pipes for the gas supply which are located above a longitudinal exit slot of an air duct. In order to ensure a con-

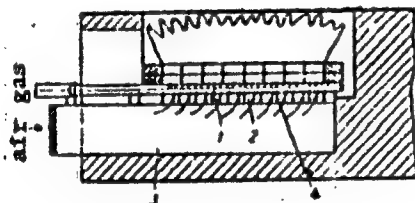


Fig. 1. Gas burner

1 - Perforated tubes; 2 - exit slot;  
3 - air duct; 4 - guide vanes.

Cord 1/2

UDC: 662.951.2

1. 4-10-66  
ACC NR: AP6029042

stant excess of air supply along the whole length of the burner, the ratio of the slot area to the area of the air duct cross section is equal to the ratio of the total aperture area in the perforated tubes to the area of the cross section of the tubes. Guide vanes are placed in the exit slot of the air-duct; perpendicular to its longitudinal axis (see Fig. 1). Orig. art. has: 1 figure. [AV]

SUB CODE: 21/ SUBM DATE: 14Feb64/

Cord 2/2 *MA*

CHREBOTAR'OV, R.S.; ANIS'KOV, V.I.; SADOVS'KIY, P.A.; FEDOROV, V.O.

Controlling macracantherhynchosis in swine. Trudy Inst.zoel.AN URSSR  
8:15-17 '52. (MIRA 9:9)  
(Swine--Diseases and pests) (Kamateda) (Ivankev District)

ZIMIN, Vladimir Ivanovich; KAPLAN, Moisey Yakovlevich; PALNY, Anna Markovna; RABINOVICH, Isay Matanovich; FEDOROV, Vasilii Petrovich; KHAKKEN, Petr Andreyevich; RIVLIN, L.B., redaktor; VORONITSKIYA, L.V., tekhnicheskii redaktor.

[Windings of electric machinery] Obmotki elektricheskikh mashin.  
Izd. 4-e, perer. Moskva, Gos. energ. izd-vo, 1954. 575 p.  
(Electric machinery) (MIRA 8:1)

ZIMIN, Vladimir Ivanovich; KAPLAN, Moisey Yakovlevich; PALEY, Anna Markovna;  
RABINOVICH, Isay Natanovich; FEDOROV, Vasilii Petrovich [deceased];  
KHAKKEN, Petr Andreyevich; RIVLIN, L.B., red.; SOBOLEVA, Ye.M.,  
tekhn.red.

[Electric machinery windings] Obmotki elektricheskikh mashin.  
Ind.5., perer. Moskva, Gos.energ.izd-vo, 1961. 475 p.  
(MIRA 14:6)

(Electric machinery—Windings)



POBEDIMSKIY, Aleksandr Alekseyevich; GAKEL', Val'ter Aleksandrovich;  
FEDOROV, V.P., red.; PANKRATOV, A.I., tekhn. red.

[Maintenance and repair of cotton spinning machines] Remont  
maghin khlopkopriadil'nogo proizvodstva. Ivanovo, Ivanovskoe  
knyazhnoe izd-vo, 1963. 166 p. (MIRA 16:10)  
(Spinning machinery--Maintenance and repair)

SKIPETROV, P.A.; SOKOLOVSKIY, T.Ya.; PERENKOV, A.P.; ROMANOV, B.V.;  
FEDOROV, V.P.; MARINKO, I.L., dotsent; AGANEGYAN, A.G.;  
YUZIRA, V.Yu., red.; YERMAKOV, M.S., tekhn.red.

[Increasing labor productivity is the main factor in expanding  
agricultural production under the seven-year plan] Povyshenie  
proizvoditel'nosti truda - glavnoe uslovie rosta sel'skokhoziaist-  
vennogo proizvodstva v semiletke. Moskva, Izd-vo Mosk.univ., 1960.  
134 p. (MIRA 14:1)

1. Moscow. Universitet.  
(Agriculture--Labor productivity)

FEDOROV, V.P., konstruktor (Kaluga).

Tie-notching machine. Put' i put. khoz. no.6:18 Je '58.  
(MIRA 11:6)

1. Kalushskiy zavod transportnogo mashinostroyeniya.  
(Railroads--Equipment and supplies)  
(Railroads--Ties)

FEDOROV, V.P., insh.

Testing experimental units of KTU support sets. Ugol' 33 no.9:16-21  
Ugol' 33 no.9:16-21 S '58. (MIRA 12:1)

1. Kuznetzkiy filial Oiprouglenasha.  
(Mine timbering--Testing)

FEDOROV, V.P., inzh.

Machine-tool unit for machining bodies and caps of relay devices.  
Mashinostroenie no.4:29-30 J1-Ag '63. (MIRA 17:2)

1. Dnepropetrovskiy zavod shakhtnoy avtomatiki.

BAZONOV, Ye.S., insth.; FEDOROV, V.P., insth.

Machine unit for bonding and welding small steel shells. Vest.  
machinoctr. 45 n. 12:56-37 D '65 (MIRA 19:1)

KOVACHEVICH, P.M., prof.; YEVSEYEV, V.S., gornyy inzh.; KORZYUKOV, Ye.K., gornyy inzh.; KRYLOV, V.F., gornyy inzh.; LINDENAU, N.I., gornyy inzh.; FEDOROV, V.R., gornyy inzh.

Results and prospects of using systems of mining thick seams with the use of the KTU unit in the Kuznetsk Basin. Ugol' 40 no.2:5-7 F '65.  
(MIRA 18:4)

HYTSKO, V.A.; FEDOROV, V.P.; VAVOROV, O.M., nauchn. red.

[TU-4 diesel locomotive with hydraulic transmission]  
Teplovaz TU-4 s gidromekhanicheskoi peredachei. Moskva,  
TSentr. nauchno-issl. in-t informatsii i tekhniko-ekon.  
issledovanii po lesnoi, tselliulozno-bumazhnoi, derevo-  
obrabatyvaiushchei promyshl. i lesnomu khoz., 1964. 19 p.  
(MIRA 18:5)



FEDOROV, V.R.

Determining the economic efficiency of mining steeply pitching seams by the longwall method with use of nonsectional flexible shields and KVP-type supports. Trudy Inst.gor.dela Sib.otd. AN SSSR no.2:129-140 '59. (MIRA 13:5)  
(Coal mines and mining) (Mine timbering)

FEDOROV, V. R.

"Application of the Local Modeling Theory to the Investigation of Heat Transfer and Local Modeling Theory to the Investigation of Heat Transfer and Resistance at a Gas Flow Along Tile Ducts"

Report presented at the conference on heat and Mass Transfer.  
Minsk, USSR, 5-10 June 61

The paper deals with the study of heat transfer and resistance at a forced gas flow at the initial part of a cylindrical tube and in the channels of variable cross section. The local modeling method and the Reynolds analogy is applied to the solution of the problem.

PLUZHNİK, Aleksandr Ivanovich; SMIRNOV, Gennadiy Mikhaylovich;  
FEDOROV, V.S., red.

[Patents and patent information] Patenty i patentnaia  
informatsiia. Leningrad, 1964. 40 p. (MIRA 18:4)

PALASTIN, L.M., kand.tekhn.nauk; KOROLIKHIN, V.I., inzh.; BOLDYSHEV, A.V.,  
inzh.; PETRAKOV, M.D., inzh.; FEDOROV, V.S., inzh.

Salient pole synchronous generators with mixed excitation. Vest.  
elektrom. 33 no.8:17-23 Ag '62. (MIRA 15:7)  
(Electric generators)

FEDOROV, V.S., inzh.; CHEKALIN, A.M., inzh.

The Schlieker shipyard [from foreign journals]. Sudostroyeniye  
27 no.11:65-67 N '61. (MIRA 15:1)  
(Germany, West-Shipyards)

FEDOROV, V.S.; KOZODOY, A.K.; ZUBAREV, A.V.

Selecting jetting drilling parameters and the size of nozzle for  
jet bits. Izv.vys.ucheb.zav.; neft i gaz 5 no.8:31-36 '62.  
(MIRA 17:3)

1. Groznenskiy neftyanoy institut i Groznenskiy nauchno-issledova-  
tel'skiy neftyanoy institut.

FEDOROV, V.S.; BULATOV, V.V.

Stressed state in the bottom hole and the determination of the  
cutting hardness of rocks. Izv.vys.ucheb.zav.; neft' i gaz 6  
no.9:31-35 '63. (MIRA 17:2)

1. Groznenskiy neftyanoy institut.

FEDOROV, V. S.

Continuity and Monogenesis. (1919)

SO: Izvestiya Ivanovo-Vosnesensk Politekh. In-ta, 1-12



FEDOROV, V. S.

Specific Significance of Wholly Continuous Analytical Functions. (1922)

SO: Izvestiya Ivanovo-Vosnesensk Politekh. In-ta, 3-16

FEDOROV, V. S.

On the Conformance of Representation in Circles with Sections. (1922)

SO: Izvestiya Ivanovo-Vosnesensk Politekh. In-ta, 49-59

FEDOROV, V. S.

On the Continuity of Analytical Functions. (1924)

Matem. Sb., Vol. 32, No 1, pp 115-121

FEDOROV, V. S.

On Derivative Analytical Functions. (1924)

SO: Matem. Sb., Vol 32, No 1, pp 122-134

FEDOROV, V. S.

Monogenesis and Continual Well-Defined Representation. (1925)

SO: Izvestiya Ivanovo-Voznesensk Politekh In-ta, 8, 38-48

FEDOROV, V. S.

Formal Basis of New Mechanics (jointly with K. N. Shaposhnikov). (1925)

SO: Zeitschrift fur Physik, Vol 32, No 9, pp 664-672

FEDOROV, V. S.

On the Mechanics of Electronics and Light Quantem. (jointly with K. N. Shaposhnikov)  
(1925).

SO: Zeitschrift fur Physik, Vol 34, No 5/7, 402-405

FEDOROV V.S.

O razlozhenii vsyudu nepreryvnoy analiticheskoy funktsii v ryad po dvoynym integralam  
lebesgue'a. Matem. S.B., 33(1926), 385-394.

SO; Mathematics in the USSR, 1917-1947  
edited by Jurosh, A.G.,  
Markushevich, A.L.,  
R shevskiy, P.K.,  
Moscow-Leningrad, 1948



FEDOROV, V. S.

On Representation of the Fields by Analytical Functions.(1926)

SO: Comptus Rendus, Paris, Vol 182, 1203-1205

FEDCROV V.S.

Sur la representation des fonctions analytiques. Bull. Acad. Sci. colonaise (A),  
(1927).

SO: Mathematics in the USSR, 1917-1947  
edited by Jurosh, A.G.,  
Markushevich, A.L.,  
R shevskiy, P.K.,  
Moscow-Leningrad, 1948

FEDOROV, V. S.

On a Series of Dual Lebeg Integrals in the Theory of Analytical Functions.(1927)

SO: Matem. Sb., 34, No 1, 29-36

FEDOROV V.S.

Zamechaniya k statye o razlozhenii vsyudu nepreryvnoy analiticheskoy funktsii v  
ryad po dvoynym integralam lebesgue'a Matem. sb., 35(1928), 37-38.

SO: Mathematics in the USSR, 1917-1947

edited by Jurosh, A.G.,

Markushevich, A.L.,

Rashevskiy, P.K.,

Moscow-Leningrad, 1948

FEDOROV, V. S.

On the Representation of Analytical Functions to the Proximity of a Whole of Singular Points. (1928)

SO: Matem. Sb., 35, No 2, 237-250

FEDOROV, V. S.

On the Monogeneity of the Functions of a Variable Complex. (1928)

SO: Izvestiya Ivanovo-Voznesensk Politekh In-ta, 11, 3-14

FEDOROV, V. S.

Mathematical Analysis, II. (1928)

SO: Litogr, Uzd. Ivanovo-Voznesensk Politekh In-ta

FEDOROV, V. S.

On the Monogeneity of the Functions of one Complex Variable. (1929)

SO: Annali Math. (1928-1929), 6, 161-168



FEDOROV, V. S.

On the Development of Analytical Functions and Their Derivatives. (1928)

SO: Comptus Rendus, Paris, 189, 837-838

FEDOROV, V. S.

On the Development of Analytic Functions and Their Derivatives. (1930)

SO: Matem. Sb., 37, No 1-2, 63-78

FEDOROV, V. S.

Methods of Qualitative Determination of Textile Materials (Matem. Vvedennie)  
Moscow-Leningrad ONTI. (1930)

FEDOROV, V. S.

On a Characteristic Property of Monogenic Functions. (1931)

SO: Comptus Rendus Paris, 193, 512-13

FEDOROV, V. S.

On Wholly Continuous Analytic Functions. (1931)

SO: Comptus Rendus Ac. Sci. Varsovie, 24, 1-16

FEDOROV, V. S.

Introduction to Nomography. (1932)

Lithographed at Ivanovsk Energ. In-ta

FEDOROV, V. S.

Concerning One Characteristic of Combined Monogenic Functions. (1932)

SO: Matem. Sb., 39, 1-2, 5-14

FEDOROV, V. S.

Analytical Geometry of Planes. (1932)

SO: Ivanovo, OGIZ (cobm. c. D. B. Kaplan)



FEDOROV, V. S.

On Morer's Theorem. (1932)

SO: Matem. Sb., 40, No 2, 168-79

FEDOROV, V. S.

On the Derivatives of the Functions of the Complex Variable. (1934)

SO: Matem. Sb., 41, No 1, 92-98

FEDOROV, V. S.

On Curvilinear Integrals. (1934)

SO: Izvestiya Akademii Nauk SSSR, Ser Matem, No 6, 887-896

FEDOROV, V. S.

Concerning One Method of Studying the Properties of Curvilinear Integrals and Vectorial Poles. (1934)

SO: Trydy 2-go Veseoyuznogo Matem. S'yesda, 2, 192-200